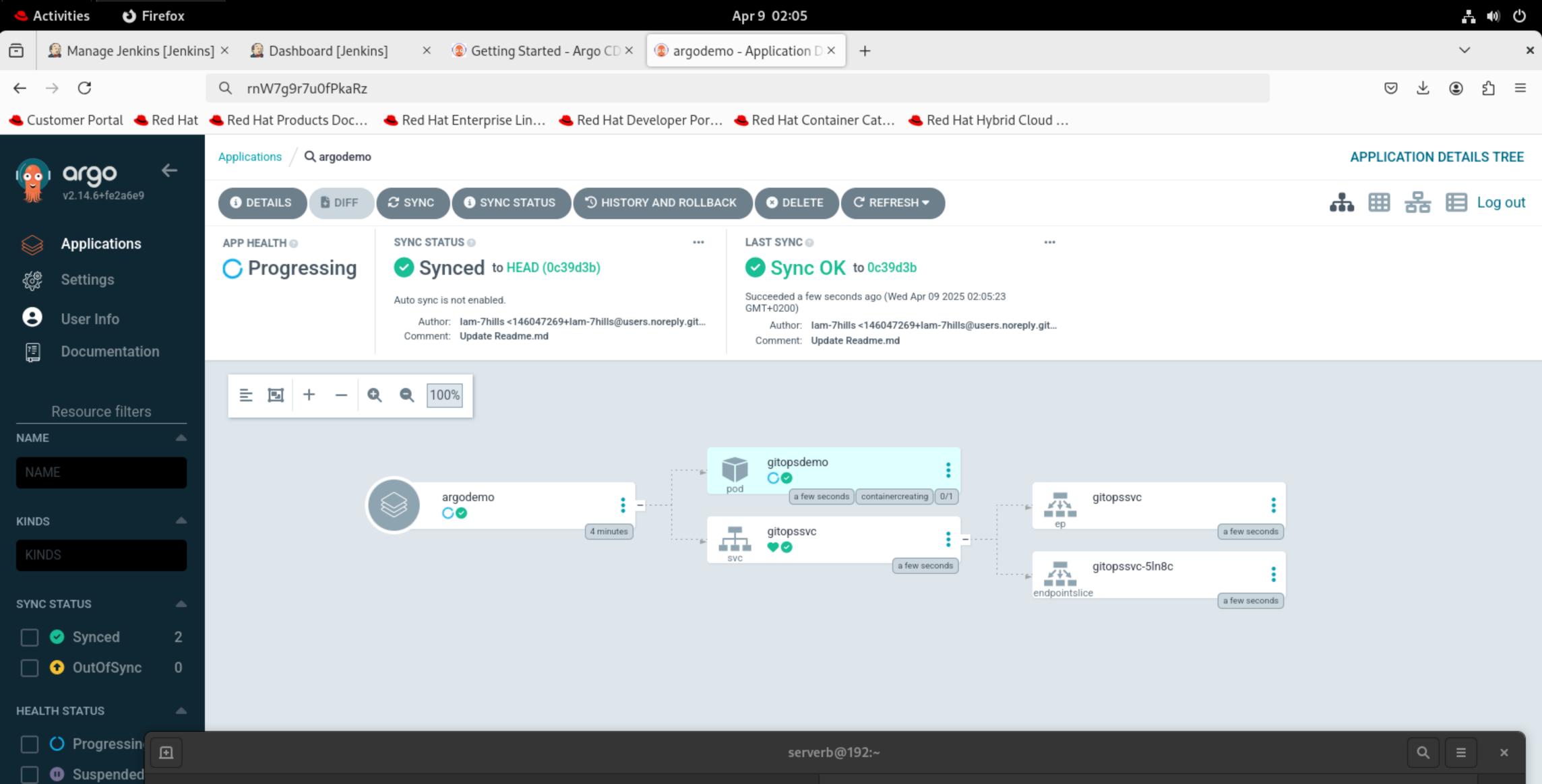
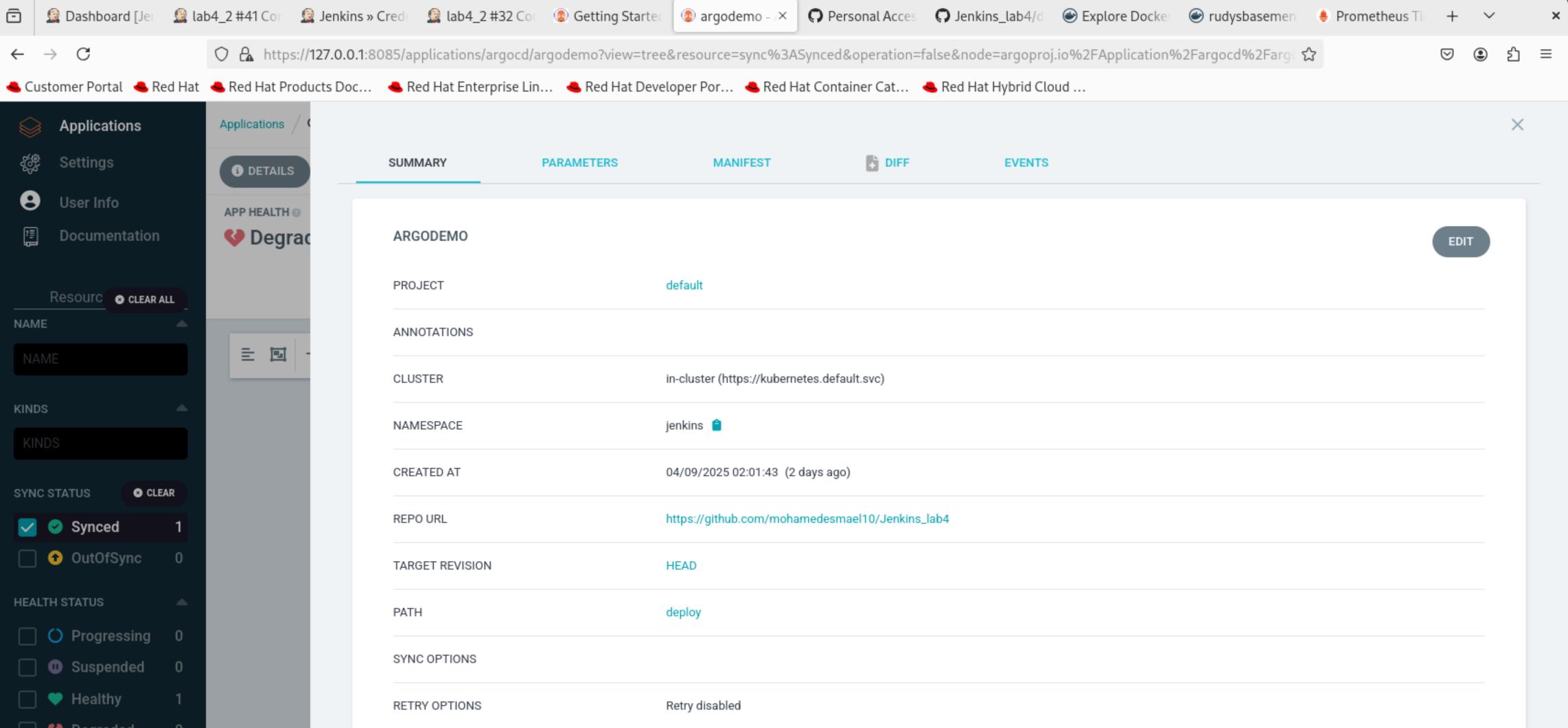
# **JENKINS LAB4**

Name: Mohamed Mostafa Mostafa Esmael

**Track: System Administration** 

**Branch: Aswan** 



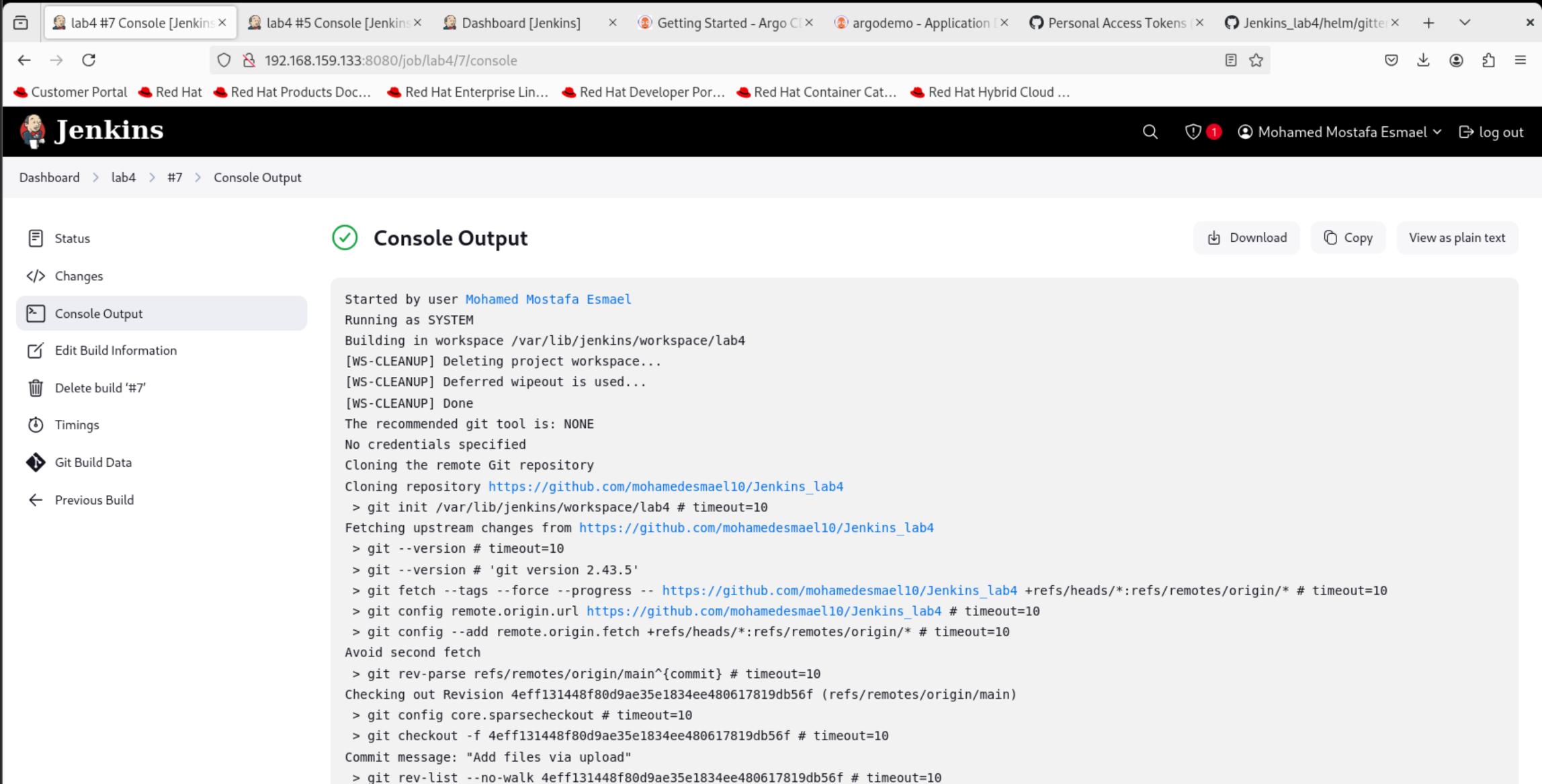


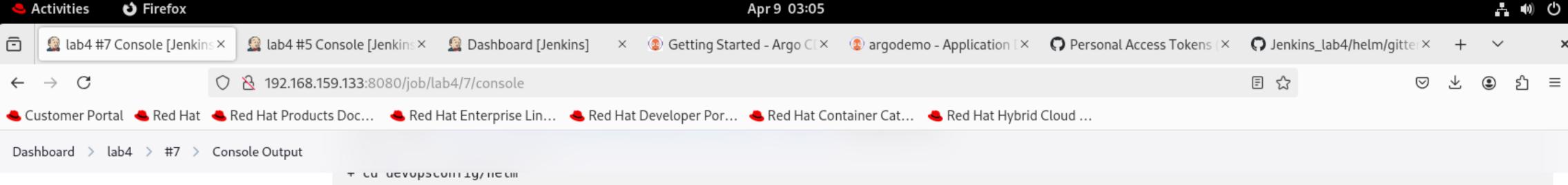
TARGET REVISION	HEAD .
PATH	deploy
SYNC OPTIONS	
RETRY OPTIONS	Retry disabled
STATUS	Synced to HEAD (0c39d3b)
HEALTH	♥ Healthy
LINKS	
IMAGES	iam7hills/dockerdemo:tomcatapp-25

SYNC POLICY

NONE

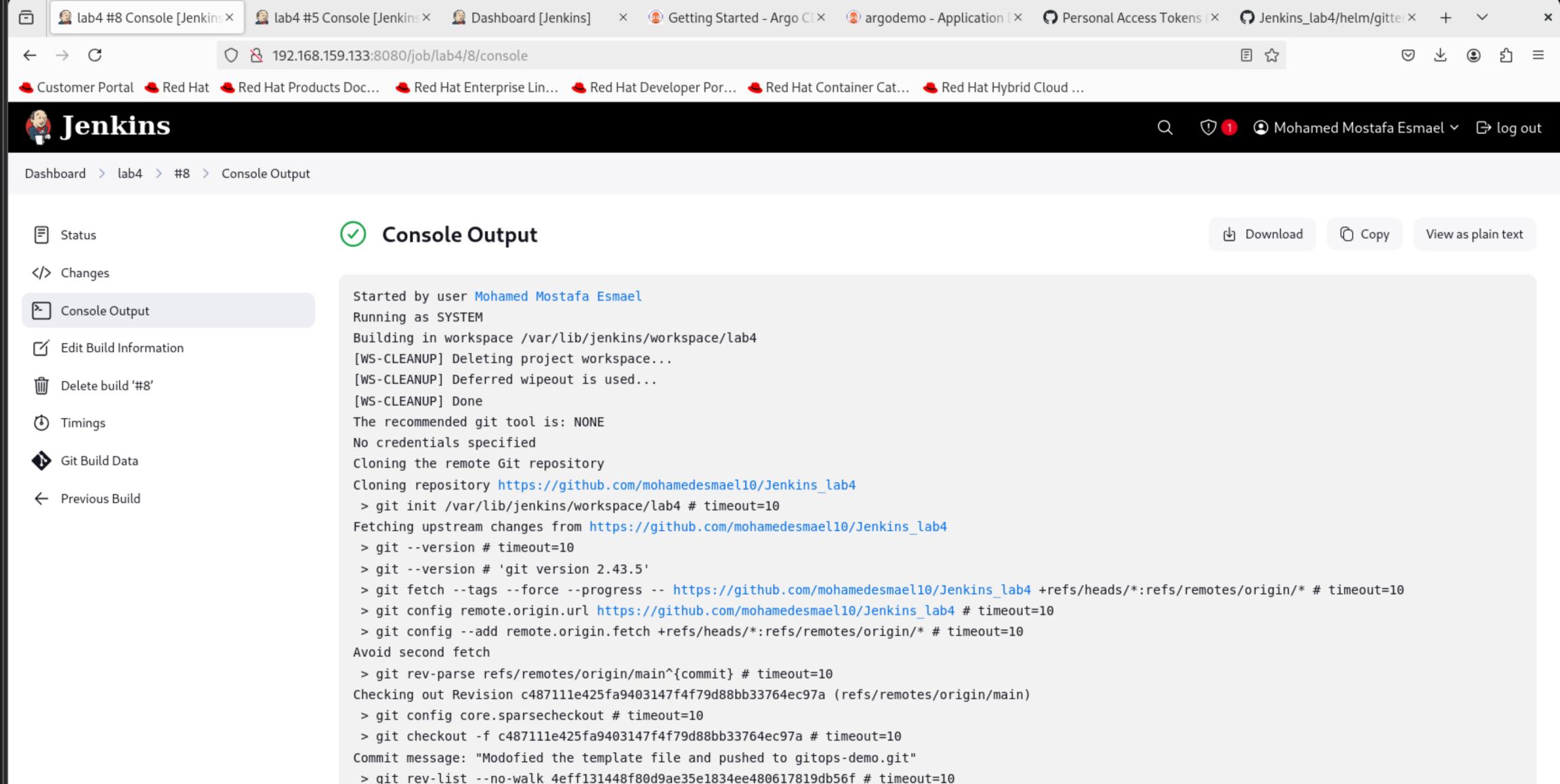
ENABLE AUTO-SYNC



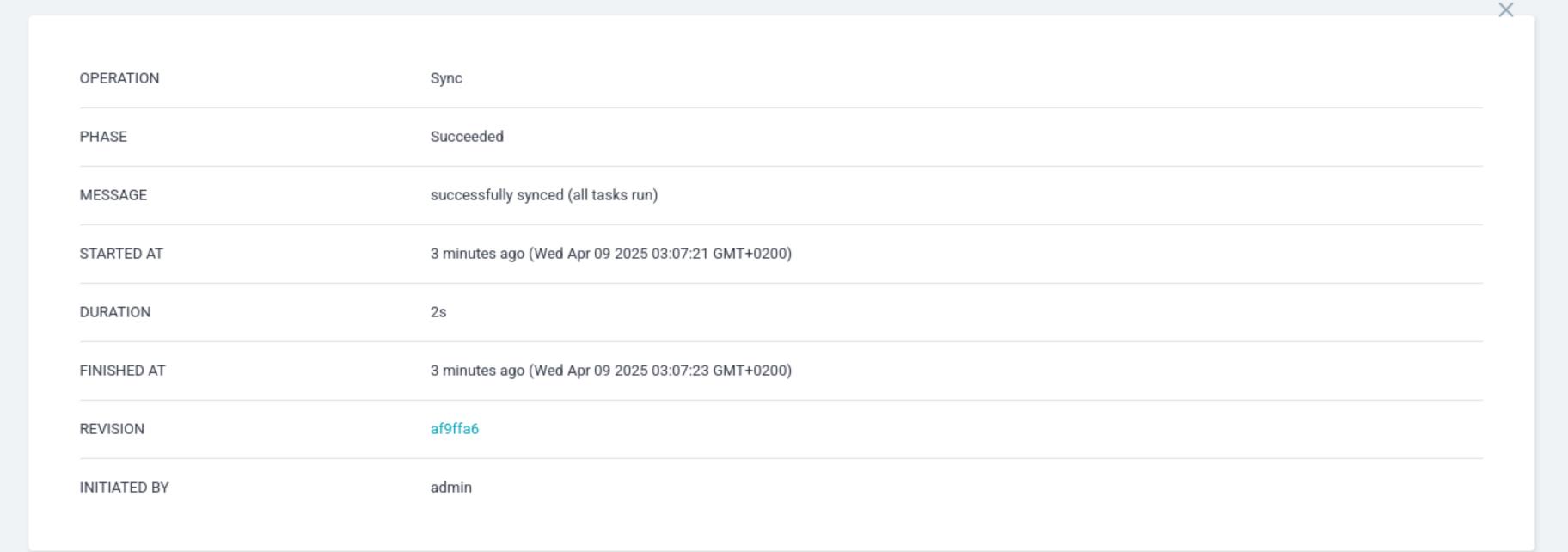


```
+ ls -lrt
total 4
-rw-r--r--. 1 jenkins jenkins 248 Apr 9 02:58 gittemplate.yaml
+ echo 7
+ sed -i 's/{tagversion}/7/g' gittemplate.yaml
+ cp -f gittemplate.yaml ../deploy/gitops.yaml
+ sed -i 's/7/{tagversion}/g' gittemplate.yaml
[lab4] $ /bin/sh -xe /tmp/jenkins14959777005540307858.sh
+ cd /var/lib/jenkins/workspace/lab4/devopsconfig
+ ls -lrt
total 8
-rw-r--r--. 1 jenkins jenkins 14 Apr 9 02:58 README.md
-rw-r--r-. 1 jenkins jenkins 920 Apr 9 02:58 Readme.md
drwxr-xr-x. 2 jenkins jenkins 47 Apr 9 02:58 deploy
drwxr-xr-x. 2 jenkins jenkins 30 Apr 9 02:58 helm
+ git config user.email mohamed.2714104@gmail.com
+ git config user.name mohamedesmael10
+ git add .
+ git commit -m 'Modofied the template file and pushed to gitops-demo.git'
[main c487111] Modofied the template file and pushed to gitops-demo.git
2 files changed, 2 insertions(+), 2 deletions(-)
+ git push https://mohamedesmael10:****@github.com/mohamedesmael10/Jenkins lab4.git
To https://github.com/mohamedesmael10/Jenkins_lab4.git
   4eff131..c487111 main -> main
Finished: SUCCESS
```

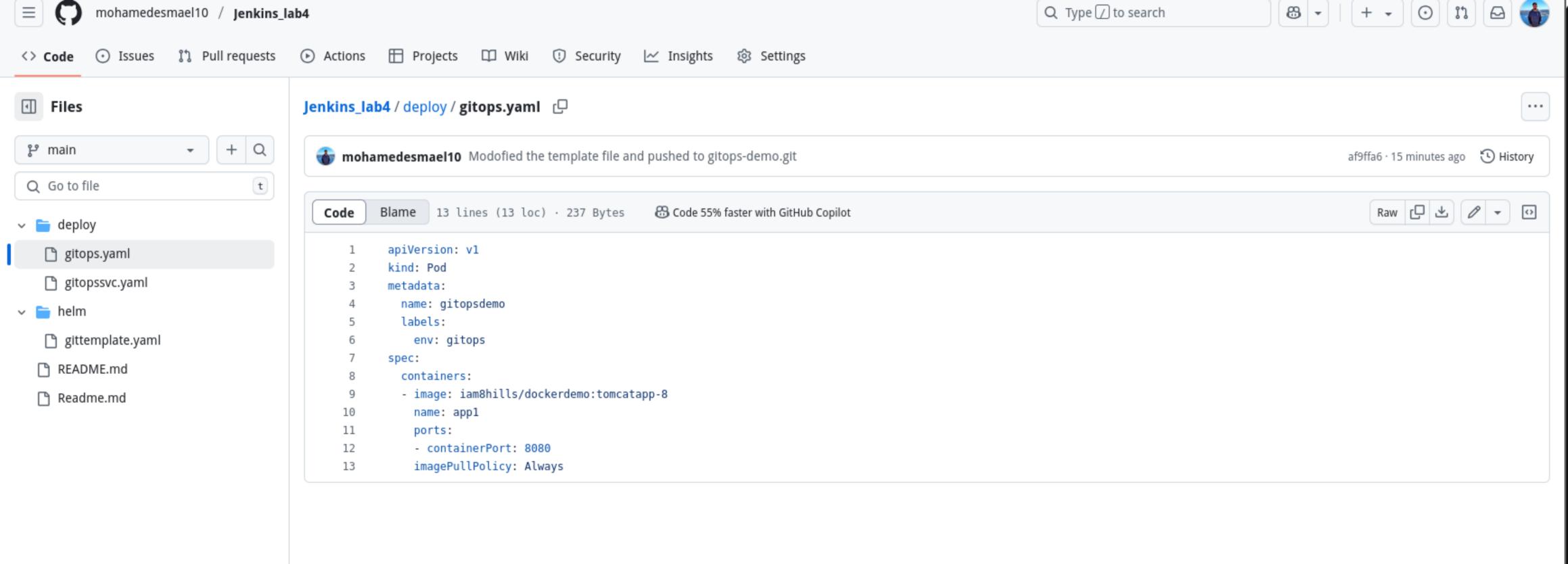
```
ntainers:
               docker://521cfaa5b3ad0e323553468574d32b005b45ce31ca8e03c52bff06595e092ae1
Container ID:
                iam7hills/dockerdemo:tomcatapp-7
Image:
                docker-pullable://iam7hills/dockerdemo@sha256:47e2bece5412eb780bdae15977c42ba03c3d8511ced7d2b7b74032bd18f566b5
Image ID:
Port:
                 8080/TCP
Host Port:
```



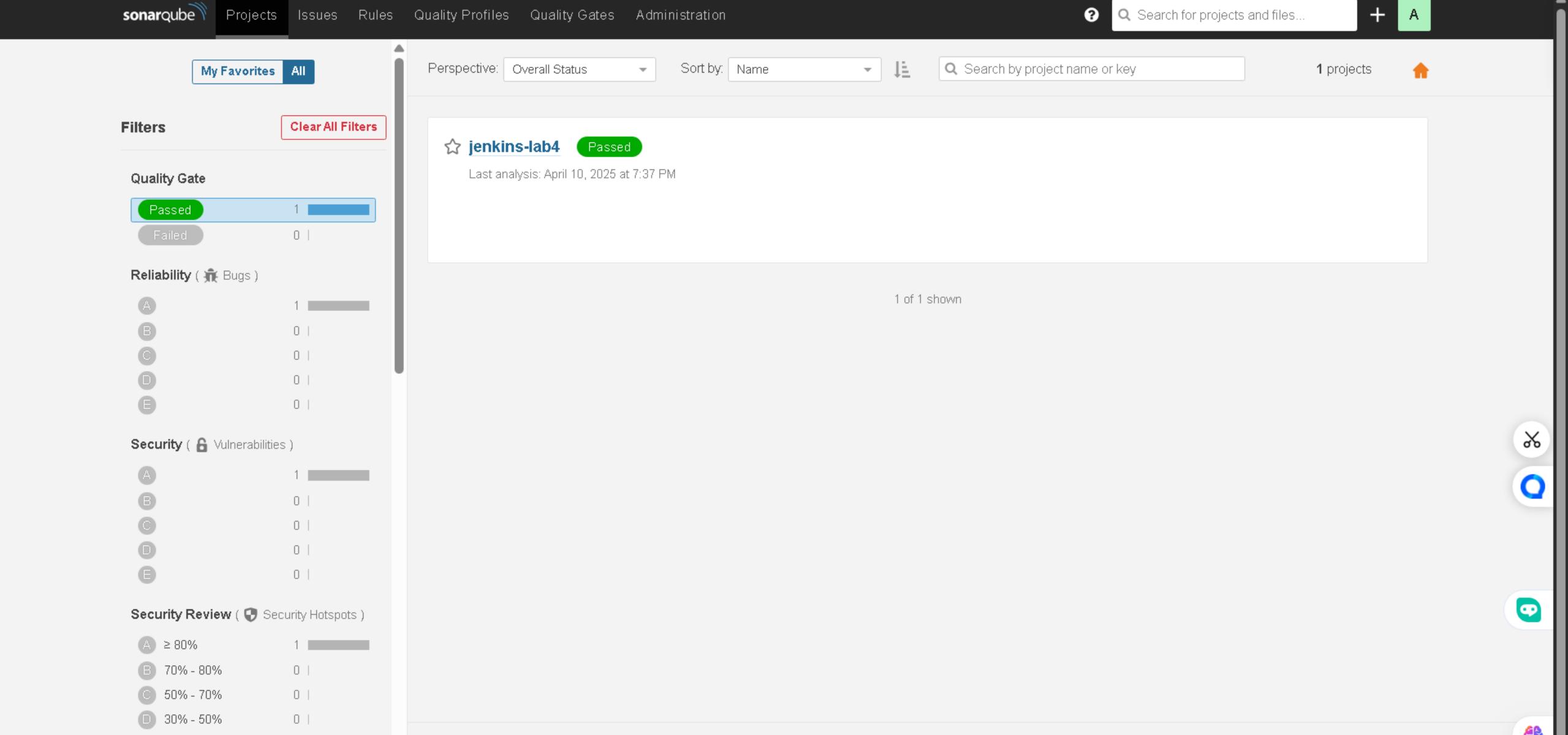
```
IP: 10.244.0.10
Containers:
app1:
                  docker://521cfaa5b3ad0e323553468574d32b005b45ce31ca8e03c52bff06595e092ae1
  Container ID:
                   iam8hills/dockerdemo:tomcatapp-8
   Image:
                  docker-pullable://iam7hills/dockerdemo@sha256:47e2bece5412eb780bdae15977c42ba03c3d8511ced7d2b7b74032bd18f566b5
  Image ID:
                  8080/TCP
   Port:
  Host Port:
                   0/TCP
                  Waiting
   State:
```



KE	SULI						HEALTH ▼ STATUS ▼ HOOK ▼ MESSAGE ▼
	KIND	NAMESPACE	NAME	STATUS	HEALTH	ноок	MESSAGE
	v1/Service	jenkins	gitopssvc	Synced	-		service/gitopssvc unchanged
	v1/Pod	jenkins	gitopsdemo	Synced	-		pod/gitopsdemo configured



86	-: {}	86	-: {}
87	k:{"ip":"10.244.0.31"}:	87	k:{"ip":"10.244.0.31"}:
88	-: ()	88	.: {}
89	f:ip: {}	89	f:ip: {}
90	f:startTime: {}	90	f:startTime: {}
91	manager: kubelet	91	manager: kubelet
92	operation: Update	92	operation: Update
93	subresource: status	93	subresource: status
94	time: '2025-04-10T18:48:22Z'	94	time: '2025-04-10T18:48:22Z'
95	name: gitopsdemo	95	name: gitopsdemo
96	namespace: jenkins	96	namespace: jenkins
97	resourceVersion: '27421'	97	resourceVersion: '27421'
98	uid: 30eeacab-b406-46e8-ab04-4bcebf0b6ab4	98	uid: 30eeacab-b406-46e8-ab04-4bcebf0b6ab4
99	spec:	99	spec:
100	containers:	100	containers:
101	- image: iam <mark>8</mark> hills/dockerdemo:tomcatapp- <mark>8</mark>	101	- image: iam <mark>9</mark> hills/dockerdemo:tomcatapp- <mark>9</mark>
102	imagePullPolicy: Always	102	imagePullPolicy: Always
103	name: app1	103	name: app1
104	ports:	104	ports:
105	- containerPort: 8080	105	- containerPort: 9090
106	protocol: TCP	106	protocol: TCP



 Status
 Date

 All Except Pending

 ■ Start Date

 to ■ End Date
 ■ Reload Reset

Status	Task	ID	Submitter	Submitted	Started	Finished	Duration	
SUCCESS	ienkins-lab4 [Project Analysis]	AZYgzFtesF_UOSAibX_C	admin April 10, 202	5 7:43:05 PM	7:43:07 PM	7:43:07 PM	343ms	<b>*</b> -
SUCCESS	ienkins-lab4 [Project Analysis]	AZYgymntsF_UOSAibX_B	admin	7:40:58 PM	7:40:58 PM	7:40:58 PM	388ms	<b>*</b> -
SUCCESS	[Project Analysis]	AZYgxxQ-sF_UOSAibX_A	admin	7:37:19 PM	7:37:21 PM	7:37:22 PM	441ms	<b>*</b>
SUCCESS	ienkins-lab4 [Project Analysis]	AZYgwV6GsF_UOSAibX	admin	7:31:05 PM	7:31:06 PM	7:31:07 PM	459ms	<b>*</b> -
SUCCESS	[Project Analysis]	AZYgwBzSsF_UOSAibX	admin	7:29:43 PM	7:29:44 PM	7:29:46 PM	1.930s	₩.
SUCCESS	[Project Analysis]	AZYfDFBPsltRPevUXgE0	admin	11:33:42 AM	11:33:43 AM	11:33:43 AM	463ms	<b>*</b>
SUCCESS	ienkins-lab4 [Project Analysis]	AZYe_LKosltRPevUXgEz	admin	11:16:39 AM	11:16:40 AM	11:16:41 AM	1.910s	<b>*</b>

Dashboard > lab4\_2 > #32

</>
Changes

Console Output

Edit Build Information

Timings

Pipeline Overview

Pipeline Console

Thread Dump

Pause/resume

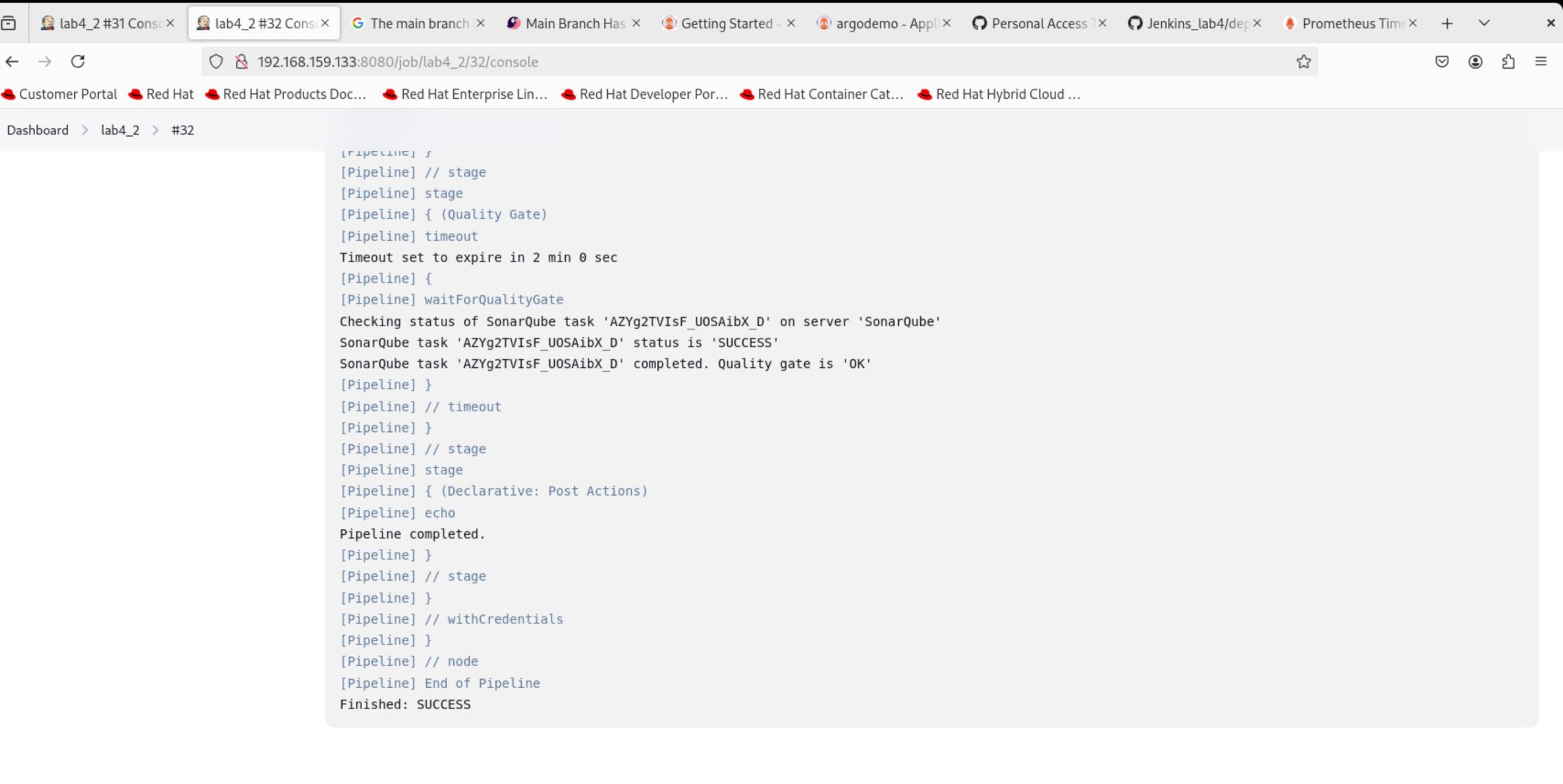
Replay

Pipeline Steps

Workspaces

← Previous Build

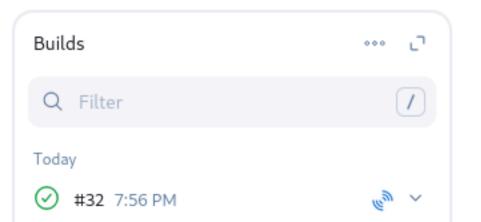
```
Started by user Mohamed Mostafa Esmael
[Pipeline] Start of Pipeline
[Pipeline] node
Running on Jenkins in /var/lib/jenkins/workspace/lab4_2
[Pipeline] {
[Pipeline] withCredentials
Masking supported pattern matches of $GITHUB CRED or $GITHUB CRED PSW or $SONAR TOKEN
[Pipeline] {
[Pipeline] stage
[Pipeline] { (Clone & Replace Tag)
[Pipeline] sh
+ rm -rf devopsconfig
+ git clone https://github.com/mohamedesmael10/Jenkins lab4.git devopsconfig
Cloning into 'devopsconfig'...
+ ls -lrt
total 0
drwxr-xr-x. 5 jenkins jenkins 78 Apr 10 19:56 devopsconfig
+ cd devopsconfig/helm
+ ls -lrt
total 4
-rw-r--r-. 1 jenkins jenkins 237 Apr 10 19:56 gittemplate.yaml
+ echo 'Build number: 32'
Build number: 32
+ sed -i 's/{tagversion}/32/g' gittemplate.yaml
+ cp -f gittemplate.yaml ../deploy/gitops.yaml
+ sed -i 's/32/{tagversion}/g' gittemplate.yaml
[Pipeline] }
[Pipeline] // stage
```



#### Dashboard > lab4\_2 >



- </>
  Changes
- □ Build Now
- Configure
- Delete Pipeline
- GitHub
- SonarQube
- Stages Stages
- Rename
- ? Pipeline Syntax





#### SonarQube Quality Gate

jenkins-lab4 Passed server-side processing: Success

#### Permalinks

- Last build (#32), 15 min ago
- Last stable build (#32), 15 min ago
- Last successful build (#32), 15 min ago
- Last failed build (#30), 29 min ago
- Last unsuccessful build (#31), 29 min ago
- Last completed build (#32), 15 min ago



Dashboard > lab4\_2 > #32 > Pipeline Console



Success 48 min ago in 26 sec

- ⊘ Clone & Replace Tag
- Git Push
- Quality Gate
- Post Actions

Stage 'Quality Gate'

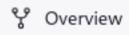
- Started 47 min ago
  - Queued 0 ms
- Took 0.51 sec
- Success
- Running on Jenkins
- C→ View as plain text

true

Wait for SonarQube analysis to be completed and return quality gate status

- Checking status of SonarQube task 'AZYg2TVIsF\_UOSAibX\_D' on server 'SonarQube'
- SonarQube task 'AZYg2TVIsF\_UOSAibX D' status is 'SUCCESS'
- SonarQube task 'AZYg2TVIsF\_UOSAibX\_D' completed. Quality gate is 'OK'

▶ Rebuild



Configure



Allows you to replay a Pipeline build with a modified script. If any load steps were run, you can also modify the scripts they loaded.

Main Script

```
stages {
 9 ∨
            stage('Clone & Replace Tag') {
10 ~
                steps {
11 ~
                    sh '''
12
13
                        rm -rf devopsconfig
14
                        git clone https://github.com/mohamedesmael10/Jenkins_lab4.git devopsconfig
                        cd devopsconfig/helm
15
                        ls -lrt
16
                        echo "Build number: ${BUILD_NUMBER}"
17
                        sed -i "s/{tagversion}/$BUILD_NUMBER/g" gittemplate.yaml
18
                        cp -f gittemplate.yaml ../deploy/gitops.yaml
19
20
                        sed -i "s/$BUILD_NUMBER/{tagversion}/g" gittemplate.yaml
                     1.1.1
21
22
```

Pipeline Syntax

Allows you to replay a Pipeline build with a modified script. If any load steps were run, you can also modify the scripts they loaded.

Main Script

```
stage('Git Push') {
25 ~
                steps {
26 ~
                    sh '''
                        cd devopsconfig
28
                        git config user.email "mohamed.27141040@gmail.com"
29
                        git config user.name "mohamedesmael10"
30
31
                        git add .
                        git commit -m "Modified the template file and pushed to gitops-demo.git" || echo "No changes to commit"
32
                        git push https://${GITHUB CRED USR}:${GITHUB CRED PSW}@github.com/mohamedesmael10/Jenkins lab4.git
33
                    1.1.1
34
35
36
           stage('SonarQube Analysis') {
38 ~
```

Allows you to replay a Pipeline build with a modified script. If any load steps were run, you can also modify the scripts they loaded.

#### Main Script

```
36
37
           stage('SonarQube Analysis') {
38 ~
39 ~
        steps {
            withSonarQubeEnv('SonarQube') {
40 ~
                script {
41 ~
                    def scannerHome = tool 'sonar-scanner'
42
                    sh """
43
                       export SONAR_SCANNER_OPTS="--add-opens java.base/java.lang=ALL-UNNAMED --add-opens java.base/java.lang.refl
44
45
                       ${scannerHome}/bin/sonar-scanner -Dsonar.projectKey=jenkins-lab4 -Dsonar.sources=devopsconfig/deploy -Dsonar
                    0.00
46
47
48
49
50 }
```

Allows you to replay a Pipeline build with a modified script. If any load steps were run, you can also modify the scripts they loaded.

Main Script

```
51
            stage('Quality Gate') {
52 v
53 ~
                steps {
                    timeout(time: 2, unit: 'MINUTES') {
54 ~
                        waitForQualityGate abortPipeline: true
55
56
57
58
59
60
        post {
61 ~
            always {
62 v
                echo "Pipeline completed."
63
64
65
```